

Special points of
interest:

- 2008-09 E&TE year in review
- Upcoming events
- Resources
- Help wanted



Indiana Tech Flash

Indiana's Most Comprehensive
Newsletter & Resource for Engineering &
Technology Education.



June 2009

Another successful "E&TE" year in review!



Today I would like to share the final Indiana Tech Flash for the 2008-09 school year. I would simply like to thank each of you with the deepest of gratitude for investing of yourself, your effort, your knowledge and your life in the hearts and minds of Indiana students.

You have probably heard me state many times before that I truly believe that teachers are heroes for what you do in helping to inspire, engage and challenge students!

To illustrate my point I would like to review some of the success stories from this past school year include...

- Indiana students qualified for the state & national *F1 in Schools* championships!

- 53 cars and 300+ students competed in the *IMSTEA Super Mileage Challenge*!
- Matthew Putman of Westfield High School honored as a "20 to Watch" *Leader in Education Technology*!
- New Castle students competed in the *Conrad Prize* national finals!
- North Montgomery HS students *fabricated a racing hovercraft*!
- 2 *Indiana Teachers* and 2 *Indiana programs* were honored by ITEA for excellence!
- *Indiana ETE Day* was *Proclaimed*!
- 300 students from 17 schools participated in the *Project Lead The Way* student conference!
- More than 500 students from 23 high schools competed at *Tech T.R.E.K!*
- Students from schools throughout the state had another successful season in *robotics competitions*!
- Greenfield featured as an *outstanding PLTW program*!
- Gary Gray inducted into the *Society of Innovators of NW Indiana*!
- *Seymour High School* featured as a *model program* by ITEA!



This is only a sample of your great work. Please have a safe and happy summer!

-mfitz

Features inside this
issue include:

Indiana Dual Credit Directory	2
Free PTC Pro/E Academy	2
MST Lesson Plans	2
Vex Robotics Workshops	3
Science of Speed	3
Think Green	3
Help Wanted	4

Upcoming Events

- June 15-26 - **PLTW STI** - Kokomo
- June 22 - 23, 2009 - **FREE Pro/ENGINEER 3D CAD Workshop** – North Harrison Middle School
- July 6-17 - **PLTW STI** - Kokomo



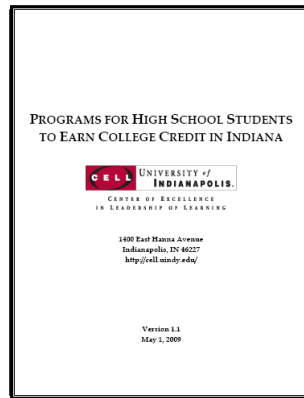
Strip-built Racing Kayak

Sam's client was a multi-sport competitor who had a problem with his K1 (one-person) flat water racing kayak – it seemed too small for him and sat too low in the water. He asked Sam to research the problem and come up with some solutions.

<http://www.techlink.org.nz/student-showcase/materials/sam-notman.htm>



New Indiana Dual Credit Directory



This directory identifies

opportunities for high school students to earn college credit in Indiana, to better inform high school administrators, counselors, and teachers who are exploring dual credit partnerships with higher education institutions and to identify additional opportunities for their students to earn college credit while still in high school.

CELL intends for the directory to be inclusive of

many types of programs that offer the opportunity for high school students to earn college credit. Programs have been organized into six different categories.

http://www.doe.in.gov/sservices/pdf/IN_Dual_Credit_Provider_Directory.pdf

New MST Lesson Plans on the Virtual Learning System



New MST Lesson Plans on the Virtual Learning System (VLS) Lesson plans related to mathematics, science,

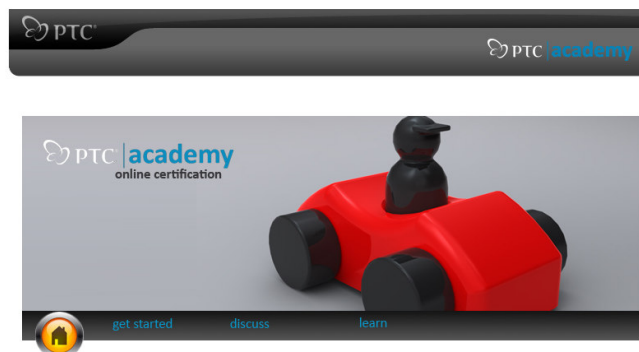
and technology education have been added to the New York State Education Department's Virtual Learning System (VLS). These K-12

lesson plans were developed by teachers involved with the St. Lawrence County STEM Partnership. The learning

standards, key ideas, performance indicators, and aligned resources can be viewed by clicking on the appropriate links. The lesson plans may also be accessed by using the search engine on the VLS main page.

<http://eservices.nysed.gov/vls/welcome.do>

FREE! PTC Pro/Engineer Academy



PTC Pro/Engineer Academy

Welcome to the PTC/Academy learning portal. Here you will find self

directed and self paced tutorials to get you started using your FREE Pro/ENGINEER wildfire 4.0 license. **If you are an educator:** Why not complete the 'get started' module and apply for online certification! Formal accreditation allows you to obtain a 300 seat license to teach Pro/ENGINEER in your School!

<http://www.ptcacademy.com/>

Indiana Vex Robotics Educator Workshops

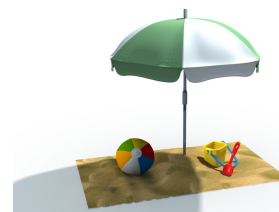
Summer 2009

Indiana Vex Robotics Educator Workshops are open to all Indiana middle and high school teacher in technical (STEM) fields and second year veterans. Third year participants are invited to attend at the Indianapolis Workshop August 3-5. All workshops will be held at the local Ivy Tech Community College campus -

June 8-10 Evansville,
June 15-17 Valparaiso,
June 22-24 Kokomo, **June 29-July 1** Bloomington,
July 13-15 Columbus,
July 20-22 Terre Haute,
July 27-29 Fort Wayne,
August 3-5 Indianapolis.

Need more information?

Contact Dan Ward at
dward@ivytech.edu or at
 765-459-0561
 for more details!



NSF Teams with NASCAR TO Reveal "The Science of Speed"

Educators have a new way to engage students in grades 8-12; they can turn to NASCAR. A new online series of videos called "The Science of Speed" teaches science by revealing the sophisticated science and engineering underlying NASCAR racing. "By exploring the range and depth of science that goes into something as

wildly popular as NASCAR, we hope to harness the passion of its fan base and reignite interest in science and engineering among teachers and students," says Jeff Nesbit, director of the National Science Foundation's (NSF) Office of Legislative and Public Affairs, the organization that spearheaded the project. In the 12-module science video series, fast

cars double as science experiments that illustrate basic concepts of friction, safety, sound, and other elements of racing at speeds up to 200 miles per hour. Through the videos, NSF seeks to enhance students' critical thinking, problem solving, and innovative use of knowledge for next generation applications.

<http://www.science360.gov/>



Photovoltaic Cells

convert energy from the sun directly into electricity. In this movie, engineers Beth Richards and Miguel Contreras give your students a clear and engaging "101" on this renewable energy technology, and demonstrate the basic math and science behind it.

http://www.thefutureschann el.com/dockets/science_technology/solar_power/index.php

'Think Green' Challenges Teachers

'Think Green' challenges teachers to start 'talking trash' in their classrooms!

What happens to the waste we all produce? When does it make sense

to recycle? Can trash become energy?

Teachers and their students can find answers to these questions and more at Think Green, a new K-12 resource from Waste Management, powered by Discovery Education.

<http://www.thinkgreen.com/classroom>

NEWS AND
RESOURCES FOR
TEACHERS OF
ENGINEERING &
TECHNOLOGY
EDUCATION

Mike Fitzgerald
Technology Education Specialist
Indiana Department of Education
mfitzger@doe.state.in.us
317-232-6990

It is the policy of the Indiana Department of Education not to discriminate on the basis of race, color, religion, sex, national origin, age, or disability, in its programs, activities, or employment policies as required by the Indiana Civil Rights Law (I.C. 22-9-1), Title VI and VII (Civil Rights Act of 1964), the Equal Pay Act of 1973, Title IX (Educational Amendments), Section 504 (Rehabilitation Act of 1973), and the Americans with Disabilities Act (42 USCS §12101,et. seq.).

Inquiries regarding compliance by the Indiana Department of Education with Title IX and other civil rights laws may be directed to the Human Resources Director, Indiana Department of Education, Room 229, State House, Indianapolis, IN 46204-2798, or by telephone to 317-232-6610, or the Director of the Office for Civil Rights, U.S. Department of Education, 111 North Canal Street, Suite 1053, Chicago, IL 60606-7204



Indiana Department of Education
SUPPORTING STUDENT SUCCESS

Engineering & Technology Education



School Personnel Job Bank

There are 448 jobs available in the Job Bank.

[Frequently Asked Questions \(+\)](#)

[Search by Detail...](#)

It is possible that some of the following positions have already been filled. These positions are posted by the Indiana Department of Education for three months or until they expire.

05/29/09 - Miscellaneous (10)	05/27/09 - History / Social Studies (19)
05/28/09 - Administration (28)	05/28/09 - Mathematics (27)
05/28/09 - Arts and Music (27)	05/07/09 - Nursing and Health Services (6)
05/21/09 - Business (8)	05/29/09 - Science (48)
05/29/09 - Elementary Education / General Studies (43)	05/29/09 - Special Education (66)
05/27/09 - Engineering and Technology Education (5)	05/26/09 - Technology / Media and Library Media (7)
05/29/09 - English / Reading / Speech / Journalism (55)	05/28/09 - Vocational / Family and Consumer Science (12)
05/21/09 - Guidance / Social Work / Psychology (13)	05/29/09 - World Languages (33)
05/27/09 - Health/Physical Education/Sports (41)	

Close Date	Title/Position	Employment Type	Corporation	School	Action
06/05/2009	Industrial Technology/PLTW Teacher	Full Time	Rensselaer Central School Corp	Rensselaer Middle School	View
07/08/2009	Founding Faculty: Full and Part-time Classroom Teacher(s)	Full Time	International School of Columbus	International School of Columbus	View
07/08/2009	Founding Faculty: Full and Part-time Classroom Teacher(s)	Full Time	International School of Columbus	International School of Columbus	View
07/27/2009	Firefighting Instructor	Full Time	M S D Washington Township	J Everett Light Career Ctr	View
08/15/2009	High School Vocational Graphics Printing Teacher	Full Time	Knox Community School Corp	Knox Community High School	View

<https://dc.doe.state.in.us/doeonline/jobbank/search.aspx>

